



GOLDENLION

emBOX A2

Industrial Gaming PC Solution

**One platform.
Infinite possibilities.**



GLI

GLI certification
ready

24/7

Designed
for 24/7 operation

EU

Design and
manufactured in the EU

GOLDENLION emBOX A2

Industrial Gaming PC Solution

High-performance, reliable, and secure industrial-grade gaming PC solution designed for demanding environments in the gaming industry.

GLI Certification Ready

PRODUCT HIGHLIGHTS

Based on Kontron K4131-P mITX motherboard
High reliability and long-term availability
Designed for 24/7 operation
Designed and manufactured in the EU

CPU

AMD Ryzen™ AI Embedded P100 Series
Quad, Hexa, Octa, Ten and Twelve cores
XDNA™ 2 NPU delivering up to 50 TOPS of AI inference acceleration
Zen 5 architecture with up to 5 GHz boost frequency
CPU Cooling: Active or passive cooling

GRAPHIC PROCESSING UNIT

Integrated “RDNA 3.5” GPU with support of up to 8 WGP
Drives up to 4x 4K120 (or 2x 8K120) displays simultaneously via DisplayPort V1.4
Optional: dedicated low profile GPU (1x PCIe x4 Gen4 open slot for x16 card support)

MEMORY

2x DDR5 SODIMM sockets
DDR5 4800/5600 SDRAM, Dual Channel
Up to 96GByte memory with ECC / non-ECC

STORAGE

1x Bay 2.5“ SATA HDD/SSD Single Bay with option for CFast
1x M.2 2230/ 2242 /2280 (Key-M, PCIe x2/Gen4/NVME)
1x M.2 2230/ 2242 (Key-M, PCIe x2/Gen4/NVME)
1x M.2 2230/ 2242 /3052 (Key-B, PCIe x2/ USB2 /5G)

ETHERNET

Intel i210 with 10/100/1000 MBit/s & Realtek RTL8126 with 10/100/1000/2500/5000 MBit/s
Wake-on-LAN (Wol) by interesting Packets, Link Status Change and Magic Packet™,
PXE Support, BIOS MAC Address Display, Teaming Support

PERIPHERAL PORTS

Serial Ports: 1x RS232/422/485; optional 5x RS-232 + 1x RS-232/422/485;
4x USB 3.2. Gen2 Type A, 1x USB 3.1 Gen1 (by header), 2x USB 2.0 (by headers), USB 3 Key-A socket, USB Type-C with USB4, 1x ccTalk, 1x internal USB 2.0 stick socket

AUDIO

Audio: Integrated 7.1. multichannel audio

AUTHENTICATE

AMD integrated TPM V2.0 onboard & socket for optional TPM Module

HOUSING

Metal case with keylock

Intrusion alert switch

FEATURES

Gaming I/O controller board:

24x digital inputs (internal pull-up)

32x digital outputs (open-drain, PWM support)

8x AUX outputs

Current-sensed +12V output for disconnection detection of electromechanical counters

8x monitored intrusion

32kB EEPROM (I²C)

8Mb battery backed SRAM (min. 60 days)

1x UART RS 232, 1x UART TTL

1x SPI

1x I²C

2x ccTalk

1x SAS interface

1-wire

Dallas Security chip for unlocking communication with I/O board

Compatible library with OS Linux and OS Windows

Motherboard:

FAN monitored & controlled CPU / AUX1

TEMP monitored CPU / onboard sensors

HDD Password / EraseDisk

BIOS POST- / BIOS Boot- / OS- HW Watchdog

Your own boot logo

POWER SUPPLY REQUIREMENTS

DC-In Jack with locking function

Input voltage 9 V-34 V (max. 10 A / max. 140 W)

DIMENSIONS

Overall dimensions: 240/240/108 mm (w/d/h)

Chassis dimensions: 210/210/100 mm (w/d/h)



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